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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/813,277	03/31/2004	Kalle Tammi	59643.00385	5420
32294 7590 03/07/2008 SQUIRE, SANDERS & DEMPSEY L.L.P. 14TH FLOOR 8000 TOWERS CRESCENT TYSONS CORNER, VA 22182				
EXAMINER KAMPURIA, SHARAD K				
ART UNIT 2617		PAPER NUMBER		
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Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

Office Action Summary

Application No.

10/813,277

Applicant(s)

TAMMI ET AL.

Examiner

Sharad Rampuria

Art Unit

2617

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --
Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

- 1) ☒ Responsive to communication(s) filed on 07 December 2007.
- 2a) ☐ This action is **FINAL**. 2b) ☒ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

- 4) ☒ Claim(s) 1-22 is/are pending in the application.
- 4a) Of the above claim(s) _____ is/are withdrawn from consideration.
- 5) ☐ Claim(s) _____ is/are allowed.
- 6) ☒ Claim(s) 1-22 is/are rejected.
- 7) ☐ Claim(s) _____ is/are objected to.
- 8) ☐ Claim(s) _____ are subject to restriction and/or election requirement.

Application Papers

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☐ The drawing(s) filed on _____ is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

Priority under 35 U.S.C. § 119

- 12) ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☐ All b) ☐ Some * c) ☐ None of:
1. ☐ Certified copies of the priority documents have been received.
 2. ☐ Certified copies of the priority documents have been received in Application No. _____.
 3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

* See the attached detailed Office action for a list of the certified copies not received.

Attachment(s)

- 1) ☒ Notice of References Cited (PTO-892)
- 2) ☐ Notice of Draftsperson's Patent Drawing Review (PTO-946)
- 3) ☐ Information Disclosure Statement(s) (PTO/SE/US)
Paper No(s)/Mail Date _____
- 4) ☐ Interview Summary (PTO-413)
Paper No(s)/Mail Date _____
- 5) ☐ Notice of Informal Patent Application
- 6) ☐ Other: _____

DETAILED ACTION

Disposition of the claims

- I. The current office-action is in response to the amendment filed on 12/07/2007.

Accordingly, Claims 1-22 are imminent for further assessment as follows:

Claim Rejections - 35 USC § 103

- II. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negated by the manner in which the invention was made.

This application currently names joint inventors. In considering patentability of the claims under 35 U.S.C. 103(a), the examiner presumes that the subject matter of the various claims was commonly owned at the time any inventions covered therein were made absent any evidence to the contrary. Applicant is advised of the obligation under 37 CFR 1.56 to point out the inventor and invention dates of each claim that was not commonly owned at the time a later invention was made in order for the examiner to consider the applicability of 35 U.S.C. 103(c) and potential 35 U.S.C. 102(e), (f) or (g) prior art under 35 U.S.C. 103(a).

Claims 1-22 are rejected under 35 U.S.C. 103(a) as being unpatentable over **BAJKO et al.** [WO 200291785 A1] in view of **Abrol et al.** [US 7079511 B2].

As per claim 1, **BAJKO** teaches:

A method (Abstract, Pg.1; 5-8, Pg.10; 4-13), the method comprising:

Storing in a user information store a plurality of identities in association with a first serving controller, the plurality of identities being associated with respective registration statuses selected from a registered status and an unregistered status; detecting that a user equipment has requested a registration to a second serving controller using at least one of said plurality of identities; issuing a registration termination request identifying the at least one of the plurality of identities, which has been newly assigned to the second serving controller as a result of the requested registration; (Pg.11; 21-Pg.14; 8), and

BAJKO doesn't teach specifically, responsive to the registration termination request, issuing a re-registration notification to the user equipment including the at least one of the plurality of identities which has a registered status and which was not assigned to the second serving controller as a result of the requested registration, and disassociating all identities of the said user from the first serving controller. However, **Abrol** teaches in an analogous art, that responsive to the registration termination request, issuing a re-registration notification to the user equipment including the at least one of the plurality of identities which has a registered status and which was not assigned to the second serving controller as a result of the requested registration, and disassociating all identities of the said user from the first serving controller. (Col.12; 14-42). Therefore, it would have been obvious to one of ordinary skill in the art at the time of invention to modify **BAJKO** including responsive to the registration termination request, issuing a re-registration notification to the user equipment including the at least one of

the plurality of identities which has a registered status and which was not assigned to the second serving controller as a result of the requested registration, and disassociating all identities of the said user from the first serving controller in order to provide a novel method and apparatus for performing seamless handoff of a mobile station between radio access networks having different wireless interfaces during wireless packet data service operation.

As per claims 2, 19, **BAJKO** teaches all the particulars of the claim except disassociating all identities of the said user from the first serving controller comprises removing the all identities and their data from the first serving controller, and removing their association in the user information store with the first serving controller. However, **Abrol** teaches in an analogous art, that a method according to claims 1, 18, wherein the step of disassociating all identities of the said user from the first serving controller comprises removing the all identities and their data from the first serving controller, and removing their association in the user information store with the first serving controller. (i.e. Col.14; 22-33).

As per claims 3, 20, **BAJKO** teaches all the particulars of the claim except the plurality of identities include a set of unregistered statuses, and wherein the set is disassociated but not reassigned. However, **Abrol** teaches in an analogous art, that a method according to claims 1, 18, wherein the plurality of identities include a set of unregistered statuses, and wherein the set is disassociated but not reassigned. (i.e. Col.14; 22-33).

As per claim 4, **BAJKO** teaches:

A method according to claim 1, wherein the registration termination request includes a deregistration reason. (e.g based on timer value; Pg.15; 15-21).

As per claim 5, BAJKO teaches:

A method according to claim 4, wherein the deregistration reason in a 3GPP communication system comprises NEW_SERVER_ASSIGNED. (i.e. newly selected S-CSCF2; Pg.14; 1-3).

As per claim 6, BAJKO teaches:

A method according to claim 1, wherein the step of detecting that the user has requested registration comprises receiving at the user information store an authentication request. (Pg.12; 1-12, and 26-31).

As per claim 7, BAJKO teaches:

A method according to claim 1, wherein at least two users have a shared identity and a non-shared identity and the method further comprises a step of checking, when the non-shared identity has been newly assigned to the second serving controller, whether the user has the shared identity and, if so, issuing a re-registration notification to other users sharing the shared identity. (i.e. ID's; Pg.12; 1-31).

Claims 8, 18, 14, are the **system, apparatus,** claims, corresponding to **method** claim 1 respectively, and rejected under the same rational set forth in connection with the rejection of claim 1 respectively, above.

As per claim 9, BAJKO teaches:

A communications system according to claim 8, wherein the user information store comprises a home subscriber server. (24; Fig.1, Pg.9; 5-10)

As per claim 10, BAJKO teaches:

A communications system according to claim 8, wherein the serving controller comprises a call state control function. (22-23; Fig.1, Pg.8; 25-32)

As per claim 11, BAJKO teaches:

A communications system according to claim 8, wherein the communications system is wireless. (1; Fig.1, Pg.8; 7-15)

As per claim 12, BAJKO teaches:

A communications system according to claim 8, wherein said plurality of identities includes a shared identity which is associated with at least one other user. (i.e. ID's; Pg.12; 1-31).

As per claim 13, BAJKO teaches:

A communications system according to claim 12, wherein the first serving controller is operable to issue a re-registration notification to the at least one other user. (i.e. ID's; Pg.12; 1-31).

As per claim 15, BAJKO teaches:

A serving controller according to claim 14, which is operable to disassociate all identities of the said user by removing the identities and their data in the serving controller and by removing their association in the user information store. (i.e. ID's forced to move to the newly selected S-CSCF2 or not; Pg.14; 30-Pg.15; 13).

As per claim 16, BAJKO teaches:

A serving controller according to claim 14, which is operable to read a deregistration reason in the registration termination request. (i.e. ID's forced to move to the newly selected S-CSCF2 or not; Pg.14; 30-Pg.15; 13).

As per claim 17, BAJKO teaches:

A serving controller according to claim 14, which is operable to issue a re-registration notification to any other users sharing one of the said identities. (i.e ID's; Pg.14; 16-Pg.15; 21).

As per claim 21, BAJKO teaches:

A system according to claim 18, wherein the detecting means comprises receiving means for receiving at the user information store an authentication request. (Pg. 12; 1-12, and 26-31).

As per claim 22, BAKO teaches:

A system according to claim 18, wherein at least two users have a shared identity and a non-shared identity and the system further comprises checking means for checking, when the non-shared identity has been newly assigned to the second serving controller, whether the user has the shared identity and, if so, the notification means is configured to issue a re-registration notification to other users sharing the shared identity. (i.e. ID's; Pg.14; 16-Pg.15; 21, furthermore Pg.11; 26-33).

Response to Remarks

III. Applicant's arguments with respect to claims 1-22 has been fully considered but is moot in view of the new ground(s) of rejection

Conclusion

IV. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Sharad Rampuria whose telephone number is (571) 272-7870. The examiner can normally be reached on M-F. (8:30-5 EST).

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, William Trost can be reached on (571) 272-7872. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000 or

EBC@uspto.gov.

/Sharad Rampuria/
Primary Examiner
Art Unit 2617